

## Prof. HAKAN DEMİRAL

### Personal Information

**Email:** hdemiral@ogu.edu.tr

**Web:** <https://avesis.ogu.edu.tr/hdemiral>

### International Researcher IDs

ScholarID: hGLK76MAAAAJ

ORCID: 0000-0003-3038-8598

ScopusID: 7801443707

Yoksis Researcher ID: 171117

### Education Information

Doctorate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), Turkey 1997 - 2001

Postgraduate, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), Turkey 1994 - 1997

Undergraduate, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, Turkey 1990 - 1994

### Dissertations

Doctorate, Asetik asit-su karışımlarından çeşitli yöntemlerle asetik asidin kazanılması, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (Dr), 2001

Postgraduate, Şlepme arıtım tesisi atığı kondensatın damıtma yöntemi ile değerlendirilmesi, Eskisehir Osmangazi University, FEN BİLİMLERİ ENSTİTÜSÜ, Kimya Mühendisliği (YI) (Tezli), 1997

### Research Areas

Chemical Engineering and Technology

### Academic Titles / Tasks

Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2016 - Continues

Associate Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2011 - 2016

Assistant Professor, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 2002 - 2011

Research Assistant, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, KİMYA MÜHENDİSLİĞİ BÖLÜMÜ, 1994 - 2002

### Academic and Administrative Experience

Vice Rector, Eskisehir Osmangazi University, 2022 - Continues

Vice Dean, Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, 2017 - 2022

Eskisehir Osmangazi University, MÜHENDİSLİK-MİMARLIK FAKÜLTESİ, Kimya Mühendisliği Bölümü, 2009 - 2017

## Courses

Termodinamik II, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

MÜHENDİSLİK ARAŞTIRMALARINA HAZIRLIK, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Fiziksel Kimya, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004, 2002 - 2003

Termodinamik I, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

Atıkların Değerlendirilmesi Araştırmaları, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004

Kimya Mühendisliğinde Matematiksel Modelleme, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006

Fiziksel Kimya Laboratuvarı, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014, 2012 - 2013, 2011 - 2012, 2010 - 2011, 2009 - 2010, 2008 - 2009, 2007 - 2008, 2006 - 2007, 2005 - 2006, 2004 - 2005, 2003 - 2004

## Advising Theses

Demiral H., Lityum iyon pillerin termal davranışının çok ölçekli çok boyutlu batarya modeli ile incelenmesi, Postgraduate, B.ÇANAK(Student), 2021

Demiral H., Fındık kabuğundan üretilen aktif karbonların süperkapasitör elektrotlarında kullanımı, Postgraduate, P.ÖZPINAR(Student), 2021

Demiral H., Morali U., Biyokütleden Elektrokimyasal Kapasitörler İçin Gözenekli Karbon Elektrot Üretimi, Postgraduate, C.DOĞAN(Student), 2020

Demiral H., Kadmiyum ve titanyum-kadmiyum kaplamaların korozyon ve hidrojen gevrekliği açısından kıyaslanması, Postgraduate, S.YENER(Student), 2018

Demiral H., Ayçiçeği küspesinden karbon moleküler elek eldesi ve gaz adsorpsiyon potansiyelinin belirlenmesi, Doctorate, U.MORALI(Student), 2017

Demiral H., Şeker pancarı küspesinden elde edilen aktif karbondan kimyasal buhar biriktirme yöntemi ile karbon moleküler elek üretimi ve karakterizasyonu, Postgraduate, F.MERVE(Student), 2015

Demiral H., Sıvı bazlı emaye çamurlarının geri kazanımı, Postgraduate, M.KEREM(Student), 2011

Demiral H., Üzüm küspesinden aktif karbon üretimi ve bakır gideriminde kullanılması, Postgraduate, C.GÜNGÖR(Student), 2010

Demiral H., Şeker pancarı küspesinden aktif karbon üretimi ve karakterizasyonu, Postgraduate, G.GÜNDÜZOĞLU(Student), 2008

Demiral H., Kavak ağacı artıklarından aktif karbon üretimi, Postgraduate, I.UZUN(Student), 2008

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Effect of binder on the electrochemical performance of activated carbon electrodes obtained from waste hazelnut shells: Comparison of PTFE and PVDF**  
Ozpinar P., Dogan C., Demiral H., Morali U., Erol S., Yıldız D., Şamdan C., Demiral İ.  
DIAMOND AND RELATED MATERIALS, vol.137, 2023 (SCI-Expanded)
- II. **Two-dimensional oxalamide based isostructural MOFs for CO<sub>2</sub> capture**  
Güçlü Y., ERER H., DEMİRAL H., Zorlu Y., Altintas C., Keskin S., Semerci F.  
Journal of Solid State Chemistry, vol.319, 2023 (SCI-Expanded)
- III. **Adsorption of malachite green on to poplar sawdust activated carbon**  
YILDIZ D., Demir I., DEMİRAL H.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.58, no.12, pp.2099-2114, 2023 (SCI-Expanded)
- IV. **Activated carbons prepared from hazelnut shell waste by phosphoric acid activation for supercapacitor electrode applications and comprehensive electrochemical analysis**  
Ozpinar P., Dogan C., Demiral H., Morali U., Erol S., Şamdan C., Yıldız D., Demiral İ.  
Renewable Energy, vol.189, pp.535-548, 2022 (SCI-Expanded)
- V. **Oxalamide-Functionalized Metal Organic Frameworks for CO<sub>2</sub> Adsorption**  
Güçlü Y., ERER H., DEMİRAL H., Altintas C., Keskin S., Tumanov N., Su B., Semerci F.  
ACS Applied Materials and Interfaces, vol.13, pp.33188-33198, 2021 (SCI-Expanded)
- VI. **Enrichment of the surface functional groups of activated carbon by modification method**  
Demiral İ., Şamdan C., Demiral H.  
Surfaces and Interfaces, vol.22, 2021 (SCI-Expanded)
- VII. **A porous Zn(II)-coordination polymer based on a tetracarboxylic acid exhibiting selective CO<sub>2</sub> adsorption and iodine uptake**  
ARICI M., Arici T. A., Demiral H., TAŞ M., YEŞİLEL O. Z.  
DALTON TRANSACTIONS, vol.49, no.31, pp.10824-10831, 2020 (SCI-Expanded)
- VIII. **Preparation of new carbon molecular sieves for optimized carbon dioxide adsorption and product yield**  
MORALI U., DEMİRAL H., ŞENSÖZ S.  
NEW CARBON MATERIALS, vol.35, no.3, pp.209-218, 2020 (SCI-Expanded)
- IX. **COMPARISON OF BASIC DYE ADSORPTION CAPACITIES OF ACTIVATED CARBONS PRODUCED BY ZnCl<sub>2</sub> AND H<sub>3</sub>PO<sub>4</sub> ACTIVATION**  
Demiral İ., Samdan C., Demiral H.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.29, no.3, pp.1304-1315, 2020 (SCI-Expanded)
- X. **Synthesis of carbon molecular sieve for carbon dioxide adsorption: Chemical vapor deposition combined with Taguchi design of experiment method**  
MORALI U., DEMİRAL H., ŞENSÖZ S.  
POWDER TECHNOLOGY, vol.355, pp.716-726, 2019 (SCI-Expanded)
- XI. **Preparation and characterization of carbon molecular sieves from chestnut shell by chemical vapor deposition**  
DEMİRAL H., DEMİRAL İ.  
ADVANCED POWDER TECHNOLOGY, vol.29, no.12, pp.3033-3039, 2018 (SCI-Expanded)
- XII. **Optimization of activated carbon production from sunflower seed extracted meal: Taguchi design of experiment approach and analysis of variance**  
MORALI U., DEMİRAL H., ŞENSÖZ S.  
JOURNAL OF CLEANER PRODUCTION, vol.189, pp.602-611, 2018 (SCI-Expanded)
- XIII. **CO<sub>2</sub> and Iodine Uptake Properties of Co(II)-Coordination Polymer Constructed from Tetracarboxylic Acid and Flexible Bis(imidazole) Linker**  
ARICI M., YEŞİLEL O. Z., TAŞ M., Demiral H.  
CRYSTAL GROWTH & DESIGN, vol.17, no.5, pp.2654-2659, 2017 (SCI-Expanded)
- XIV. **KINETICS AND EQUILIBRIUM ADSORPTION STUDY OF LEAD(II) ONTO ACTIVATED CARBON PREPARED FROM PUMPKIN SEED SHELL**

- DEMİRAL İ., ŞAMDAN C., DEMİRAL H.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.26, no.7, pp.4484-4494, 2017 (SCI-Expanded)
- XV. **Construction, Structural Diversity, and Properties of Seven Zn(II)-Coordination Polymers Based on 3,3',5,5'-Azobenzene tetracarboxylic Acid and Flexible Substitute Bis(imidazole) Linkers**  
ARICI M., YEŞİLEL O. Z., TAŞ M., Demiral H., ERER H.  
CRYSTAL GROWTH & DESIGN, vol.16, no.9, pp.5448-5459, 2016 (SCI-Expanded)
- XVI. **Adsorption of copper(II) from aqueous solutions on activated carbon prepared from grape bagasse**  
Demiral H., Gungor C.  
JOURNAL OF CLEANER PRODUCTION, vol.124, pp.103-113, 2016 (SCI-Expanded)
- XVII. **Production and characterization of activated carbons from pumpkin seed shell by chemical activation with ZnCl<sub>2</sub>**  
Demiral İ., Samdan C., Demiral H.  
DESALINATION AND WATER TREATMENT, vol.57, no.6, pp.2446-2454, 2016 (SCI-Expanded)
- XVIII. **ACTIVATED CARBONS PREPARED FROM POPLAR WOOD: CHARACTERISATION AND PHENOL ADSORPTION**  
Demiral H.  
FRESENIUS ENVIRONMENTAL BULLETIN, vol.25, no.11, pp.4669-4679, 2016 (SCI-Expanded)
- XIX. **Effect of Solvent Molecule in Pore for Flexible Porous Coordination Polymer upon Gas Adsorption and Iodine Encapsulation**  
ARICI M., YEŞİLEL O. Z., TAŞ M., Demiral H.  
INORGANIC CHEMISTRY, vol.54, no.23, pp.11283-11291, 2015 (SCI-Expanded)
- XX. **Preparation and Characterization of Activated Carbon from Chestnut Shell and its Adsorption Characteristics for Lead**  
Demiral H., Baykul E., Gezer M. D., Erkoc S., Engin A., BAYKUL M. C.  
SEPARATION SCIENCE AND TECHNOLOGY, vol.49, no.17, pp.2711-2720, 2014 (SCI-Expanded)
- XXI. **Adsorption of boron from aqueous solutions using activated carbon prepared from olive bagasse**  
Kose T. E., Demiral H., Öztürk N.  
DESALINATION AND WATER TREATMENT, vol.29, pp.110-118, 2011 (SCI-Expanded)
- XXII. **Production of activated carbon from olive bagasse by physical activation**  
Demiral H., Demiral İ., Karabacakoglu B., Tumsek F.  
CHEMICAL ENGINEERING RESEARCH & DESIGN, vol.89, no.2A, pp.206-213, 2011 (SCI-Expanded)
- XXIII. **Preparation and characterization of activated carbons from poplar wood (Populus L.)**  
Demiral H., Uzun I.  
SURFACE AND INTERFACE ANALYSIS, vol.42, pp.1338-1341, 2010 (SCI-Expanded)
- XXIV. **Surface characterization of activated carbons obtained from olive bagasse by chemical activation**  
Demiral İ., Demiral H.  
SURFACE AND INTERFACE ANALYSIS, vol.42, pp.1347-1350, 2010 (SCI-Expanded)
- XXV. **Removal of nitrate from aqueous solutions by activated carbon prepared from sugar beet bagasse**  
Demiral H., Gunduzoglu G.  
BIORESOURCES TECHNOLOGY, vol.101, no.6, pp.1675-1680, 2010 (SCI-Expanded)
- XXVI. **Preparation of high-surface area activated carbons from Paulownia wood by ZnCl<sub>2</sub> activation**  
YORGUN S., Vural N., DEMİRAL H.  
MICROPOROUS AND MESOPOROUS MATERIALS, vol.122, pp.189-194, 2009 (SCI-Expanded)
- XXVII. **Production of granular activated carbons from loquat stones by chemical activation**  
SÜTCÜ H., DEMİRAL H.  
JOURNAL OF ANALYTICAL AND APPLIED PYROLYSIS, vol.84, no.1, pp.47-52, 2009 (SCI-Expanded)
- XXVIII. **Adsorption of chromium(VI) from aqueous solution by activated carbon derived from olive bagasse and applicability of different adsorption models**  
Demiral H., Demiral İ., Tumsek F., Karabacakoglu B.  
CHEMICAL ENGINEERING JOURNAL, vol.144, no.2, pp.188-196, 2008 (SCI-Expanded)
- XXIX. **Surface properties of activated carbon prepared from wastes**

- Demiral H., Demiral İ.  
SURFACE AND INTERFACE ANALYSIS, vol.40, pp.612-615, 2008 (SCI-Expanded)
- XXX. **Pore structure of activated carbon prepared from hazelnut bagasse by chemical activation**  
Demiral H., Demiral İ., Tuemsek F., Karabacakoglu B.  
SURFACE AND INTERFACE ANALYSIS, vol.40, no.3-4, pp.616-619, 2008 (SCI-Expanded)
- XXXI. **Recovery of acetic acid from waste streams by extractive distillation**  
Demiral H., Yildirim M.  
WATER SCIENCE AND TECHNOLOGY, vol.47, no.10, pp.183-188, 2003 (SCI-Expanded)

### Articles Published in Other Journals

- I. **ŞEFTALİ ÇEKİRDEĞİNDEN ÇİNKO KLORÜR AKTİVASYONU İLE AKTİF KARBON ÜRETİMİ VEKARAKTERİZASYONU**  
DEMİRAL İ., ŞAMDAN C., DEMİRAL H.  
Eskişehir Osmangazi Üniversitesi Mühendislik ve Mimarlık Fakültesi Dergisi, vol.28, no.1, pp.73-82, 2020 (Peer-Reviewed Journal)
- II. **Şlempe Arıtım Tesisi Atığı Kondensatın Özütleme Yöntemi ile Değerlendirilmesi**  
SELENGİL U., DEMİRAL H., M ERCENGİZ Y.  
ESOGÜ Mühendislik Mimarlık Fakültesi Dergisi, vol.21, no.1, pp.171-182, 2008 (Peer-Reviewed Journal)
- III. **Adsorption of Textile Dye onto Activated Carbon Prepared From Industrial Waste by ZnCl<sub>2</sub> Activation**  
DEMİRAL H., DEMİRAL İ., KARABACAKOĞLU B., TÜRMEK F.  
JOURNAL OF INTERNATIONAL ENVIRONMENTAL APPLICATION AND SCIENCE, vol.3, no.5, pp.381-389, 2008 (Peer-Reviewed Journal)
- IV. **Liquid Phase Adsorption of Phenol by Activated Carbon Derived From Hazelnut Bagasse**  
KARABACAKOĞLU B., TÜRMEK F., DEMİRAL H., DEMİRAL İ.  
JOURNAL OF INTERNATIONAL ENVIRONMENTAL APPLICATION AND SCIENCE, vol.3, no.5, pp.373-380, 2008 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Evaluation of Electrode Properties of Activated Carbon Produced from Biomass Waste**  
ÖZPINAR P., DOĞAN C., MORALI U., ŞAMDAN C., YILDIZ D., EROL S., DEMİRAL İ., DEMİRAL H.  
3rd Bioenergy Studies Symposium, Turkey, 20 May 2021
- II. **Impedance Response of Titanium-Cadmium Plated Steel Used in Aircrafts**  
EROL S., YENER S., MORALI U., DEMİRAL H.  
International Symposium on Aircraft Technology, MRO & Operations 2020, Ukraine, 22 - 24 September 2020
- III. **CAPACITY OF ACTIVATED CARBON DERIVED FROM TEA WASTE BYH<sub>3</sub>PO<sub>4</sub> IN THE REMOVAL OF DYES**  
DEMİRAL İ., ŞAMDAN C., DEMİRAL H.  
International Conference on Advanced Technologies, 28 April - 01 May 2018
- IV. **Preparation and N<sub>2</sub> CO<sub>2</sub> and CH<sub>4</sub> Adsorption of Carbon Molecular Sieve Derived From Chestnut Shell By Chemical Vapor Deposition**  
DEMİRAL H., DEMİRAL İ., MORALI U., AYDIN ŞAMDAN C.  
7th International Conference on Advanced Technologies, Antalya, Turkey, 28 April - 01 May 2018
- V. **Preparation of high-surface area activated carbons from sunflower seed extracted meal seed by ZnCl<sub>2</sub> activation using Taguchi robust product design**  
MORALI U., DEMİRAL H., ŞENSÖZ S.  
International Congress on Chemistry and Materials Science, Ankara, Turkey, 5 - 07 October 2017
- VI. **PREPARATION AND CHARACTERIZATION OF CARBONMOLECULAR SIEVES FROM CHESTNUT SHELL**

## BY CHEMICAL VAPOR DEPOSITION

DEMİRAL H., DEMİRAL İ.

3rd International Porous and Powder Materials Symposium and Exhibition PPM 2017, 12 - 15 September 2017

- VII. **Tetrakarboksilik Asit ve Esnek Bis(imidazol) Ligandı ile Sentezlenen Co(II)-Koordinasyon Polimerinin CO<sub>2</sub> ve I<sub>2</sub> Tutma Özellikleri**  
ARICI M., YEŞİLEL O. Z., TAŞ M., DEMİRAL H.  
ULUSLARARASI KATILIMLI VI. ULUSAL ANORGANİK KİMYA KONGRESİ, Burdur, Turkey, 18 - 21 May 2017
- VIII. **Removal of Cr (VI) Using Activated Carbon Prepared From Sugar Beet Bagasse Activated With H<sub>3</sub>PO<sub>4</sub>**  
DEMİRAL H., DEMİRAL İ.  
IWA 2nd Regional Symposium on Water, Wastewater and Environment, 22 - 24 March 2017
- IX. **Adsorption of lead II ions from aqueous solution by activated carbon prepared from pumpkin seed shell**  
DEMİRAL İ., AYDIN ŞAMDAN C., DEMİRAL H.  
Desalination for the Environment: Clean water and energy, 22 - 26 May 2016
- X. **Constructions of Three 3D Porous Coordination Polymers Based On 3 3 5 5 Azobenzenetetracarboxylate and Substituted Bis Imidazol 1yl Hexane Syntheses Characterizations and Properties**  
ARICI M., YEŞİLEL O. Z., TAŞ M., TABAK A., DEMİRAL H.  
Uluslararası Gözenekli ve Toz Malzemeler Sempozyumu ve Sergisi (PPM 2015), İzmir, Turkey, 15 - 18 September 2015
- XI. **ESOGÜ Kimya Mühendisliği Bölümünün MÜDEK Akreditasyonu Süreci**  
AŞKIN A., DEMİRAL H., ERŞAHAN H.  
Yöneyem Araştırması ve Endüstri Mühendisliği (YAEM) 35. Ulusal Kongresi, Turkey, 9 - 11 September 2015
- XII. **Adsorption of Remazol Blue RN from Aqueous Solutions Using Activated Carbon Prepared from Black Cumin Residue**  
SELENGİL U., DEMİRAL H.  
International Conference on Civil and Environmental Engineering, Nevşehir, Turkey, 20 - 23 May 2015, pp.641-649
- XIII. **Aktif Karbon Destekli Heteropoliasit Katalizörlerin Karakterizasyonu**  
DOĞRU M., AŞKIN A., ÇITAK A., TÜMSEK F., DEMİRAL H.  
11. Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014
- XIV. **Üzüm KÜspesinden Aktif Karbon Üretimi ve Karakterizasyonu**  
DEMİRAL H., Cihan G.  
Onbirinci Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 2 - 05 September 2014
- XV. **Production and Characterization of Activated Carbons from Pumpkin Seed Shell by Chemical Activation with ZnCl<sub>2</sub>**  
DEMİRAL İ., AYDIN ŞAMDAN C., DEMİRAL H.  
2nd International Conference on Recycling and Reuse, 06 June 2014
- XVI. **Production and characterization of activated carbon from pumpkin seed shell by chemical activation with ZnCl<sub>2</sub>**  
DEMİRAL İ., AYDIN ŞAMDAN C., DEMİRAL H.  
2nd International Conference on Recycling and Reuse, 4 - 06 June 2014
- XVII. **Surface Characterization of Activated Carbon Prepared from Chestnut Shells**  
AŞKIN A., ÇITAK A., TÜMSEK F., DEMİRAL H.  
9th World Congress of Chemical Engineering WCCE9&APPCChE 2013, Seoul, South Korea, 18 - 23 August 2013
- XVIII. **Activated carbon from pumpkin seed shell Preparation and characterization**  
DEMİRAL İ., AYDIN ŞAMDAN C., DEMİRAL H.  
International Conference on Recycling and Reuse, 04 June 2012
- XIX. **Ethyl Propionate Production Using HPA MCM 41 Type Catalysts**  
ÇITAK A., Erhan Ö., GÜÇBİLMEZ Y., DEMİRAL H.  
EUROPACAT X Congress 2011, 28 August - 02 September 2011

- XX. **Doğal Killer Kullanılarak Sulu Çözeltilerden Adsorpsiyonla Nikel Giderimi**  
TÜMSEK F., KARABACAKOĞLU B., DEMİRAL H., DEMİRAL İ.  
Dokuzuncu Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 22 - 25 June 2010
- XXI. **Bakır Adsorpsiyonunda Doğal Killerin Kullanımı**  
KARABACAKOĞLU B., TÜMSEK F., DEMİRAL İ., DEMİRAL H.  
Dokuzuncu Ulusal Kimya Mühendisliği Kongresi, Ankara, Turkey, 22 - 25 June 2010
- XXII. **Fındık küspesi piroliz katı ürününden aktif karbon eldesi**  
DEMİRAL H., DEMİRAL İ., KARABACAKOĞLU B., TÜMSEK F.  
Dokuzuncu Ulusal Kimya Mühendisliği Kongresi (UKMK-9), Turkey, 22 - 25 June 2010
- XXIII. **H Demiral I Uzun Preparation and Characterization of Activated Carbons from Poplar Wood Populus L ECASIA 09 Book of Abstracts 101 Antalya Turkey 18 23 October 2009**  
DEMİRAL H., uzun I.  
13th European Conference on Applications of Surface and Interface Analysis, 23 October 2009
- XXIV. **İ Demiral H Demiral Surface characterization of activated carbons obtained from olive bagasse by chemical activation**  
DEMİRAL İ., DEMİRAL H.  
13th European Conference on Applications of Surface and Interface Analysis, 23 October 2009
- XXV. **Surface characterization of activated carbons obtained from olive bagasse by chemical activation**  
DEMİRAL İ., DEMİRAL H.  
13 th European Conference on Applications of Surface and Interface Analysis, 18 October 2009
- XXVI. **Adsorption of boron from aqueous solutions using activated carbon prepared from agricultural residue**  
KÖSE T. E., DEMİRAL H., ÖZTÜRK N.  
4th International Boron Symposium, Eskişehir, Turkey, 17 - 21 October 2009
- XXVII. **Adsorption of Methylene Blue onto Activated Carbon Prepared from Olive Bagasse**  
DEMİRAL H., DEMİRAL İ., KARABACAKOĞLU B., TÜMSEK F.  
Taibah International Chemistry Conference, Medine, Saudi Arabia, 23 - 25 March 2009
- XXVIII. **Adsorption of Textile Dye onto Activated Carbon Prepared from Industrial Waste by ZnCl<sub>2</sub> Activation**  
DEMİRAL H., DEMİRAL İ., KARABACAKOĞLU B., TÜMSEK F.  
Blacksea International Environmental Symposium, 25 - 29 August 2008, vol.3, pp.381-389
- XXIX. **Liquid Phase Adsorption of Phenol by Activated Carbon Derived from Hazelnut Bagasse**  
KARABACAKOĞLU B., TÜMSEK F., DEMİRAL H., DEMİRAL İ.  
Blacksea International Environmental Symposium, Giresun, Turkey, 25 - 29 August 2008, vol.3, pp.373-380
- XXX. **Pore Structure of Activated Carbon Prepared from Hazelnut Bagasse by Chemical Activation**  
DEMİRAL H., DEMİRAL İ., TÜMSEK F., KARABACAKOĞLU B.  
12th European Conference on Applications of Surface and Interface Analysis, Brüksel, Belgium, 9 - 14 September 2007, vol.40, pp.616-619
- XXXI. **Surface properties of activated carbon prepared from wastes**  
DEMİRAL H., DEMİRAL İ.  
12th European Conference on Applications of Surface and Interface Analysis, 09 September 2007
- XXXII. **H Demiral İ Demiral Surface properties of activated carbon prepared from wastes**  
DEMİRAL H., DEMİRAL İ.  
12th European Conference on Applications of Surface and Interface Analysis, 09 September 2007
- XXXIII. **H Demiral İ Demiral F Tümsek B Karabacakoğlu Pore structure of activated carbon prepared from hazelnut bagasse by chemical activation**  
DEMİRAL H., DEMİRAL İ., TÜMSEK F., KARABACAKOĞLU B.  
2th European Conference on Applications of Surface and Interface Analysis, 09 September 2007
- XXXIV. **Removal of Phenol by Adsorption on Activated Carbon Prepared from Olive Bagasse**  
TÜMSEK F., KARABACAKOĞLU B., DEMİRAL H., DEMİRAL İ.  
SOMER Symposium Series, Ankara, Turkey, 14 - 15 March 2007

- XXXV. **Aktif karbon üzerine bakır II ve nikel II iyonlarının sulu çözeltilerden adsorpsiyonunun incelenmesi**  
KARABACAKOĞLU B., TÜRMEK F., DEMİRAL H.  
Yedinci Ulusal Kimya Mühendisliği Kongresi, Turkey, 05 December 2006
- XXXVI. **Zeytin Küspesi Piroliz Katı Ürünüden Elde Edilen Aktif Karbon İle Cr VI Giderimi**  
DEMİRAL H., DEMİRAL İ., TÜRMEK F.  
Yedinci Ulusal Kimya Mühendisliği Kongresi, Eskişehir, Turkey, 5 - 08 September 2006
- XXXVII. **Zeytin küspesi piroliz katı ürünüden aktif karbon eldesi**  
DEMİRAL H., DEMİRAL İ.  
Yedinci Ulusal Kimya Mühendisliği Kongresi (UKMK-7), Turkey, 5 - 08 September 2006
- XXXVIII. **Recovery of acetic acid from waste streams by extractive distillation**  
DEMİRAL H., Yıldırım M.  
IWA 3rd World Water Congress, 07 April 2002
- XXXIX. **Petrol oluşum formasyon suyundan organik madde giderimi**  
EMİN Ş., YILDIRIM M., DEMİRAL H.  
I. Türkiye Su Kongresi, Turkey, 08 January 2001
- XL. **Asetik asit su adiponitril üçlü sisteminin çözünürlük dengesinin incelenmesi**  
DEMİRAL H., YILDIRIM M.  
Dördüncü Ulusal Kimya Mühendisliği Kongres, Turkey, 04 September 2000
- XLI. **Eskişehir Alkol Fabrikası arıtım tesisi atığı kondensatta bulunan asetik asidin sıvı sıvı özütleme yöntemiyle geri kazanılması**  
DEMİRAL H., SELENGİL U., M ERCENGİZ Y.  
3.ULUSAL KİMYA MÜHENDİSLİĞİ KONGRESİ, Erzurum, Turkey, 1 - 04 September 1998, vol.2, pp.1412-1417

## Supported Projects

- Atay F., Gür E., Demiral H., Erol S., Gültepe O., Yorulmaz U., Project Supported by Higher Education Institutions, Eş-katkılanmış Tek-boyutlu ZnO Nanoyapı Temelli Boya ile Duyarlı Hale Getirilmiş Güneş Hücreleri (DSSC), 2023 - 2025
- ŞAMDAN C., DEMİRAL H., KÖSE E., EMİROĞLU Ö., AKSU S., KARAKEHYA N., Project Supported by Higher Education Institutions, Carassius Gibelio Türünün Pullarından Aktif Karbon Üretilebilirliğinin Araştırılması, 2023 - 2024
- DEMİRAL H., MORALI U., ÇANAK B., Project Supported by Higher Education Institutions, Lityum iyon pillerin termal davranışının çok ölçekli çok boyutlu batarya modeli ile incelenmesi, 2021 - 2024
- ŞAMDAN C., Cin H. H., DEMİRAL İ., KARABACAKOĞLU B., DEMİRAL H., Project Supported by Higher Education Institutions, Mikro elektrot içerikli 3 fazlı 3 boyutlu elektrosorpsiyon teknolojisinin pestisit giderim performansının belirlenmesi, 2021 - 2024
- Yeşilel O. Z., Arıcı M., Demiral H., TUBITAK Project, Yüklü Yüzeyle Sahip Metal Organik Kafeslerin Zwitteriyonik Ligandlarla Sentezi, Karakterizasyonu, Fotokromik Özelliklerinin Ve Karbondioksit Adsorplama Kapasitelerinin Araştırılması, 2021 - 2023
- Şamdan C., Demiral H., Demiral İ., Yıldız D., Morali U., Erol S., Project Supported by Higher Education Institutions, Biyokütleden Yüksek Performanslı Elektrokimyasal Kapasitörler İçin Gözenekli Karbon Elektrot Üretimi, 2020 - 2023
- Demiral H., Şensöz S., Morali U., Project Supported by Higher Education Institutions, Biyokütleden Karbon Moleküler Elek Eldesi ve Gaz Adsorpsiyon Potansiyelinin Belirlenmesi, 2016 - 2018
- Şamdan C., Karabacakolu B., Demiral H., Tümssek F., Demiral İ., Project Supported by Higher Education Institutions, Biyokütleden Karbon Moleküler Elek Üretimi Karakterizasyonu ve Gaz Adsorpsiyonunda Kullanılması, 2013 - 2017
- Demiral H., Yeşilel O. Z., TUBITAK Project, AAzobenzenetetrakarboksilik asit ve bis imidazol türevi ligantlarla gözenekli metal organik kafeslerin mof sentezi yapılarının aydınlatılması ve gaz adsorpsiyon çalışmaları ile gözenek özelliklerinin belirlenmesi, 2014 - 2016
- Aşkın A., Çıtak A., Tümssek F., Demiral H., Project Supported by Higher Education Institutions, Aktif Karbon Destekli Heteropoliasit Katalizörlerinin Yüzey Karakterizasyonu, 2012 - 2013
- Demiral H., TÜRMEK F., Project Supported by Higher Education Institutions, BİYOKÜTLEDEN AKTİF KARBON ADSORBANLARIN ELDESİ VE DİĞER ADSORBANLARLA BİRLİKTE ATIKSU ARITIMINDA KULLANILMASI, 2005 - 2008



Demiral H., Yıldırım M. E., Project Supported by Higher Education Institutions, Bazı Organik Madde- Su Karışımlarından Azeotropik ve Özütleme Damıtma Yöntemleriyle organik Maddelerin Ayrılması , 1999 - 2001

## **Metrics**

Publication: 76

Citation (WoS): 2042

Citation (Scopus): 2320

H-Index (WoS): 20

H-Index (Scopus): 20